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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,198	01/24/2007	Yoshiaki Kusunoki	1190-0761PUS1	5538
	7590 05/16/201 ART KOLASCH & BI	EXAMINER		
PO BOX 747			HARVEY, DAVID E	
FALLS CHUR	CH, VA 22040-0747		ART UNIT	PAPER NUMBER
		2481		
			NOTIFICATION DATE	DELIVERY MODE
			05/16/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary

Application No.	Applicant(s)				
10/590,198	KUSUNOKI ET AL.				
Examiner	Art Unit				
DAVID E. HARVEY	2481				

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET WHICHEVER IS LONGER, FROM THE MAILING DATE OF T - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no eafer SIX (6) MONTHS from the mailing date of this communication.	THIS COMMUNICATION.			
If NO period for reply is specified above, the maximum statitory period will apply and will expire SIX (6) MONITHS from the mailing state of this communication. Failure to neph within the set or entended period for reply will by stated, ecuate the application to become ABANONEC (58 LISC, 87 size). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned pathent them adulations. See 37 CPR 17 office.				
Status				
1) Responsive to communication(s) filed on 22 April 2011.				
2a) ☐ This action is FINAL . 2b) ☑ This action is	non-final.			
3) Since this application is in condition for allowance excep	ot for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte C	Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims				
4) ☐ Claim(s) 1.2,4-9 and 11-13 is/are pending in the applica	tion.			
4a) Of the above claim(s) is/are withdrawn from c	onsideration.			
5) ☐ Claim(s) 8-11,13 and 14 is/are allowed.				
 Claim(s) 1.2.4-7 and 12 is/are rejected. 				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or election	requirement.			
Application Papers				
9) The specification is objected to by the Examiner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is requestion. The oath or declaration is objected to by the Examiner. N				
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority u	nder 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:	and the state of			
Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No.				
Copies of the certified copies of the priority documents have be Copies of the certified copies of the priority documents.				
application from the International Bureau (PCT Ru				
* See the attached detailed Office action for a list of the cer	1			
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Attachment(s)	л П			
Notice of References Cited (PTO-892) Notice of Drafteperson's Fatent Drawing Review (FTO-943)	4) Interview Summary (PTO-413) Paper No(s) Moil Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Patent Application			

) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
Notice of Draftsporson's Fatent Drawing Review (FTO-943)	Paper Ne(s)/Mail Date
Information Disclosure Statement(s) (PTO/SR/08)	 Notice of Informal Patent Applic

6) Other: _ Paper No(s)/Mail Date _____.

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The finality of the last Office action has been withdrawn.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

 Claims 1, 2, and 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A) For the record:

1)	The examiner notes	s that, in additior	n to the "means	for" termino	logy, the
fol	lowing non-exhausti	ve list of non-fur	nctional terms m	nay likewise inv	oke Section
11	2-6:				

a) "mechanism for ...";

b) "module for ...";

c) "device for ...";

d) "unit for ...":

e) "component for ...":

f) "element for ...":

a) "member for ...":

h) "apparatus for ..."

i) "machine for...";

i) "system for ...";

k) etc....

It is noted, however, that "circuit for" has been determined to be a "structural term" that does not invoke section 112-6.

[e.g., SEE: Federal Register/Vol.76, No. 26/Wednesday, February 9, 2011 @ first full paragraph of center column on page 7167]

It is further noted that alternative expressions substituted for "for" of a "[means] for" recitation (e.g., "adapted to", configured to", etc,...) are insufficient denote

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structure and, as such, are insufficient to avoid triggering the presumed interpretation/construction under Section 112-6 presumption. [e.g., Ex parte Rodriguez, 92 USPQ24 1395].

2) For a computer-implemented means-plus-function claim limitation that invokes 35 112, sixth paragraph, the corresponding structure is required to be more than simply a general purpose computer or microprocessor.¹ The corresponding structure for a computer-implemented function must include the algorithm as well as the general purpose computer or microprocessor.² The written description of the specification must at least disclose the algorithm that transformed the general purpose microprocessor to a special purpose computer programmed to perform the claimed function.² Applicant may express the algorithm in any understandable terms including as a mathematical formula, in prose, in a flow chart, or in any manner that provides sufficient structure.⁴

B) With respect to claim 1:

- 1) The recited "recording device for" recited in lines 3-4 of claim 1 is construed as being a means plus function limitation that invokes 35 U.S.C. 112, sixth paragraph, given: that the claim limitation meets the 3-prong analysis set forth under section 2181 of the MPEP; and that which is set forth above in part "A" of this paragraph. It is noted that this recited "means" appears to correspond to the HDD drive shown "block 12" of Figure 1. As such, his recited device has been construed as being limited to an HDD drive (and equivalents thereof).
- 2) The recited "recording programming device for ..." recited in lines 4-6 of claim 1 is construed as being a means plus function limitation that invokes 35 U.S.C. 112, sixth paragraph, given: that the claim limitation meets the 3-prong analysis set forth under section 2181 of the MPEP; and given that which is set forth above in part "A" of this paragraph. It is noted that this recited "means" appears to correspond to "block 10" of Figure 1 and, more particularly block 28 of Figure 2 of the instant specification. However, the written description fails to clearly link or associate disclosed structure, material, or acts to the claimed function such that one of ordinary skill in the art would recognize what structure, material, or acts perform the claimed function; e.d., the disclosure does not

¹ See Aristocrat Technologies Inc. v. International Game Technology, 521 F.3d 1328, 1333, 86 USPQ2d. 1235, 1239-1240 (Fed. Cir. 2008)

² See WMS Gaming, Inc. v. International Game Technology, 184 F.3d 1339, 51 USPQ2d. 1385 (Fed. Cir. 1999)

³ See Aristocrat, 521 F.3d at 1338, 86 USPQ2d. at 1243.

See Finisar Corp. v The DIRECTV Group Inc. 523 F.3d 1323, 1340, 86 USPQ2d, 1385 (Fed. Cir. 1999)

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appear to set forth the specific structure/acts that comprises said blocks 10 and 28. As such, applicant is required to:

- a) Amend the claim so that the claim limitation will no longer be a means plus function limitation under 35 U.S.C. 112, sixth paragraph; or
- b) Amend the written description of the specification such that it clearly links or associates specific structure, material, or acts to the claimed function without introducing any new matter (35 U.S.C. 132(a)); or
- c) State on the record where the corresponding structure, material, or acts are set forth in the written description of the specification that perform the claimed function. For more information, see 37 CFR 1.75(d) and MPEP § 608.01(o) and 2181.
- 3) The recited "programming information acquisition device for ..." recited in lines 8-9 claim 1 is construed as being a means plus function limitation that invokes 35 U.S.C. 112, sixth paragraph, given: that the claim limitation meets the 3-prong analysis set forth under section 2181 of the MPEP; and that which is seforth above in part "A" of this paragraph. It is noted that this recited "means" appears to correspond corresponds to the acts described in paragraph 24 of the PG Publication. As such, this recited device has been construed as being limited to such acts (and equivalents thereof).
- 4) The recited "extension keyword search device for ..." recited in lines 10-13 of claim 1 is construed as being a means plus function limitation that invokes 35 U.S.C. 112, sixth paragraph, given: that the claim limitation meets the 3-prong analysis set forth under section 2181 of the MPEP; and given that which is set forth above in part 'A" of this paragraph. It is noted that this recited "means" appears to correspond to "block 10" of Figure 1 performing an unspecified algorithm (e.g., @ S210 of Figure 8 and S106 of Figure 6. Thus, the written description fails to clearly link or associate disclosed structure, material, or acts to the claimed function such that one of ordinary skill in the art would recognize what structure, material, or acts perform the claimed function; e.g., the disclosure does not appear to set forth the specific structure/acts that comprises said device. As such applicant is required to:
 - a) Amend the claim so that the claim limitation will no longer be a means plus function limitation under 35 U.S.C. 112, sixth paragraph; or
 - b) Amend the written description of the specification such that it clearly links or associates specific structure, material, or acts to the claimed function without introducing any new matter (35 U.S.C. 132(a)); or
 - c) State on the record where the corresponding structure, material, or acts are set forth in the written description of the specification that perform the claimed function. For more information, see 37 CFR 1.75(d) and MPEP §\$ 608.01(o) and 2181.

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4) The recited "delay device for" recited in lines 113-16 of claim 1 is construed as being a means plus function limitation that invokes 35 U.S.C. 112, sixth paragraph, given: that the claim limitation meets the 3-prong analysis set forth under section 2181 of the MPEP; and given that which is set forth above in part "A" of this paragraph. It is noted that this recited "means" appears to correspond to "block 10" of Figure 1 performing an unspecified algorithm (e.g., @ S111 of Figure 6 and S217 of Figure 8. Thus, the written description fails to clearly link or associate disclosed structure, material, or acts to the claimed function such that one of ordinary skill in the art would recognize what structure, material, or acts perform the claimed function; e.g., the disclosure does not appear to set forth the specific structure/acts that comprises said device. As such, applicant is required to:

- a) Amend the claim so that the claim limitation will no longer be a means plus function limitation under 35 U.S.C. 112, sixth paragraph; or
- b) Amend the written description of the specification such that it clearly links or associates specific structure, material, or acts to the claimed function without introducing any new matter (35 U.S.C. 132(a)); or
- c) State on the record where the corresponding structure, material, or acts are set forth in the written description of the specification that perform the claimed function. For more information, see 37 CFR 1.75(d) and MPEP \$ 608.01(o) and 2181.

B) With respect to claims 5, 6, and 7:

These claims have like recitations and, therefor require like clarifications to those addressed above with respect to claim 1.

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent #6,252,629 to Takatori et al. in view of Japanese Patent Document #2003/134431 to Kato (i.e., machine generated translation provided herewith).

I. The showing of Takatori:

As is shown in Figure 1 [note lines 45-67 of column 7 and column 8], <u>Takatori</u> discloses an apparatus for recording television signal broadcasts that includes:

- 1) A recording device (@ 52):
- 2) A recording programming device (e.g., @ 200, 210, and 220):
- 3) A program information acquisition device (e.g., @ 51) for acquiring EPG information:
- 4) An keyword searching device (e.g., @ 54) which searches the EPG information to find programs of a genre that are likely to be extended/delayed thereby disrupting the start time of a subsequent program on that channel in time [note lines 11-67 of column 81: and

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5) A delay device (e.g., @ 55, 200, 56) which permits a delay to be added to the end time of the subsequent program, in response to the detection Inote lines 59-67 of column 81.

wherein the system "sets" an "incremental extension time period" prior to the searching of the EPG. Specifically, as described, the system is set with a pre-stored standard/default "incremental extension time period" that is applied unless the user feels that the standard/default time period is not suitable (e.g., Note: lines 5-28 of column 111.

II. Differences:

Claim 5 differs from the showing of <u>Takatori</u> only in that claim 5: recites that the keyword searching device is an extension keyword searching device that searches for a predetermined extension keyword; and that the extension keyword is a combination of at least two predetermined non-consecutive brrases separated by a number of characters.

III. Obviousness:

Kato teaches that an EPG format for embedding extension/delay information had not been standardized and, as such, it was known to have searched the EPG data stream pertaining to earlier programs and performing analysis on the descriptions thereof to identify "keywords" that are indicative of extension/delay data content embedded therein so as to identify the programs that have been extended Inote paragraphs 0065 and 0066 of the provided translation]. The examiner maintains that it would have been obvious to one of ordinary skill in the art to have modified the searching device in Takatori to search for embedded extension "keywords" as taught by Kato. The modification would have been advantageous in the detected extension keywords identify "actual" programming delays (as opposed to potential delays); i.e., motivation for the modification. As to the recited format of the character strings that represent the "keyword", the examiner maintains that the "analyzing of character strings" representing "descriptive content" described in Kato implicitly indicates that a multiple of phases/words are being analyzed. In this context, the examiner maintains that it would have been obvious for such strings to have at least non-consecutive words/phrases; i.e., noting, that there appears to be no criticality in the choice of "two nonconsecutive phrases".

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 Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent #6,252,629 to <u>Takatori et al.</u> in view of Japanese Patent Document #2003/134431 to Kato for the same reasons that were set forth above for claim 5.

- Claims 8-11, 13, and 14 are allowed.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID E. HARVEY whose telephone number is (571) 272-7345. The examiner can normally be reached on M-F from 6:00AM to 3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Peter-Anthony Pappas, can be reached on (571) 272-7646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/DAVID E HARVEY/
Primary Examiner, Art Unit 2481

DAVID E HARVEY
Primary Examiner
Art Unit 2481